

B<sub>1</sub>  
environmental air and other media can be applied, operably linked to said flat tubes. The ratio between a height, h, of the vortex generators and a height, H, of the flat tubes is approximately 0.05 to 0.5. The longitudinal axes of the vortex generators are inclined at angles of approximately 10° to 40° with respect to the tube longitudinal axis. The vortex generators which are adjacent to one another transversely with respect to the longitudinal axis of the tube are inclined in opposite directions. The flat tubes are beaded tubes, with a bead running parallel to the tube longitudinal axis.

On page 5, after paragraph 0021, insert the following paragraph:

B<sub>2</sub>  
Figure 15 shows a cooling loop carrying an engine coolant and communicating with the engine and a heat exchanger in the cooling loop.

**In the Claims:**

**Please cancel claims 6 and 9 without prejudice or disclaimer.**

In accordance with 37 C.F.R. § 1.121, please substitute for claims 1 the following rewritten versions of the same claims, as amended. The changes are shown explicitly in the attached "Versions with Markings to Show Changes Made."

- D<sub>Sub</sub>  
B<sub>3</sub>
1. (Amended) A heat exchanger for motor vehicles comprising:
    - (a) a plurality of flat tubes through which a fluid cooling medium can flow;
    - (b) elongated vortex generators in the form of indentations pointing inward on at least one flat face of said flat tubes, and
      - (i) wherein the ratio between a height, h, of the vortex generators and a height, H, of the flat tubes is approximately 0.05 to 0.5;
      - (ii) wherein a longitudinal axes of the vortex generators are inclined at angles of approximately 10° to 40° with respect to the tube longitudinal axis; and
      - (iii) wherein vortex generators which are adjacent transversely with respect to the tube longitudinal axis are inclined in opposite directions; and

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(iv) wherein the ratio of the distance between the vortex generator rows in the direction of the tube longitudinal axis to the length of the vortex generators is about 1 to 10; and

(v) wherein the ratio of the distance between the first flat face and the second flat face of the vortex generator rows in the direction of the tube longitudinal axis to the height of the vortex generators is approximately 10 to 30

(c) corrugated fins to which environmental air or other media can be applied operably linked to said flat tubes.

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